

CERFnet Presents  
*THE ADVENTURES OF*

CERFnet

NO. 1  
OCT '91

\$1.25

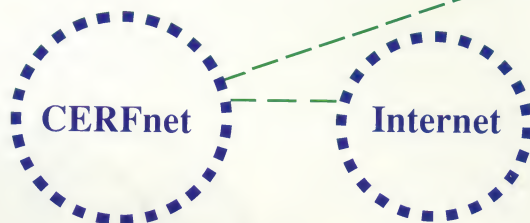
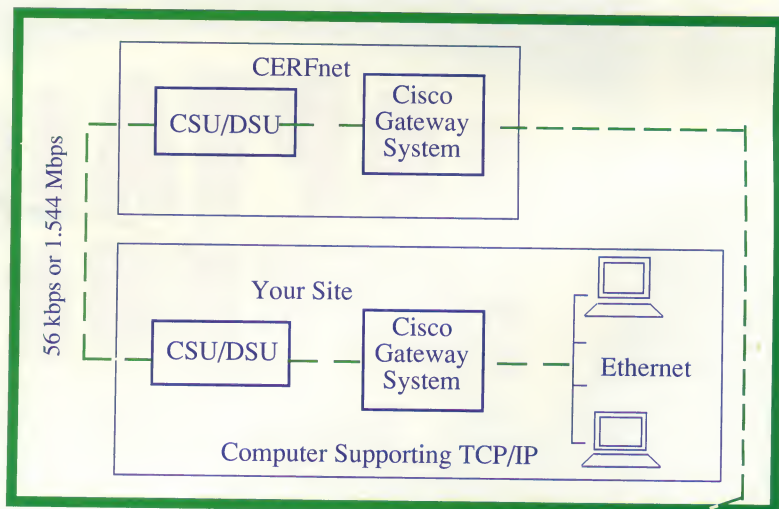
# CAPTAIN INTERNET

-and-  
**CERF BOY**



*"THE LAN THAT TIME FORGOT"*

# CERF 56 and CERF 1544: WHEN SPEED IS CRUCIAL



## *High -Speed Connections for High-End Needs*

When speed is crucial to conducting successful transactions, you may choose between our two high-speed services: CERF 1544 and CERF 56. Both provide quick response times and rapid exchange of information.

## *Easy to Install and Operate*

A CERFnet connection is easy to install and easy to operate. CERFnet has nodes located throughout California. Your site will be connected to the nearest node, keeping your costs low. For your convenience, we provide all the necessary equipment and our qualified technical staff will install it for you.

**CERFnet**

*Your Communications Edge*

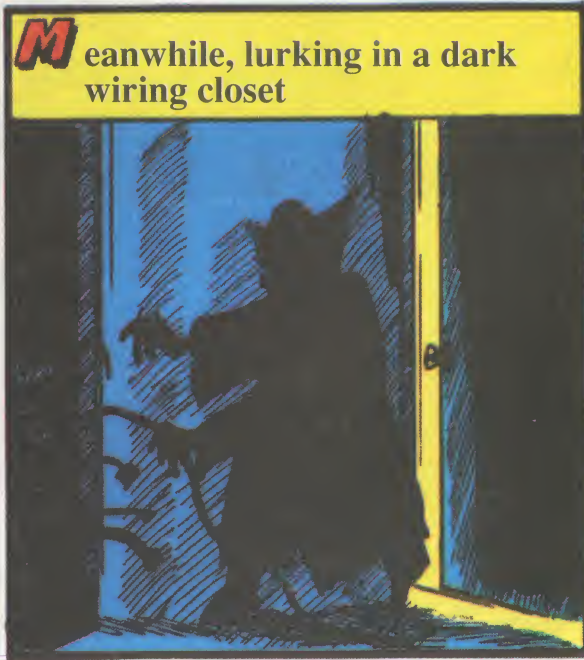
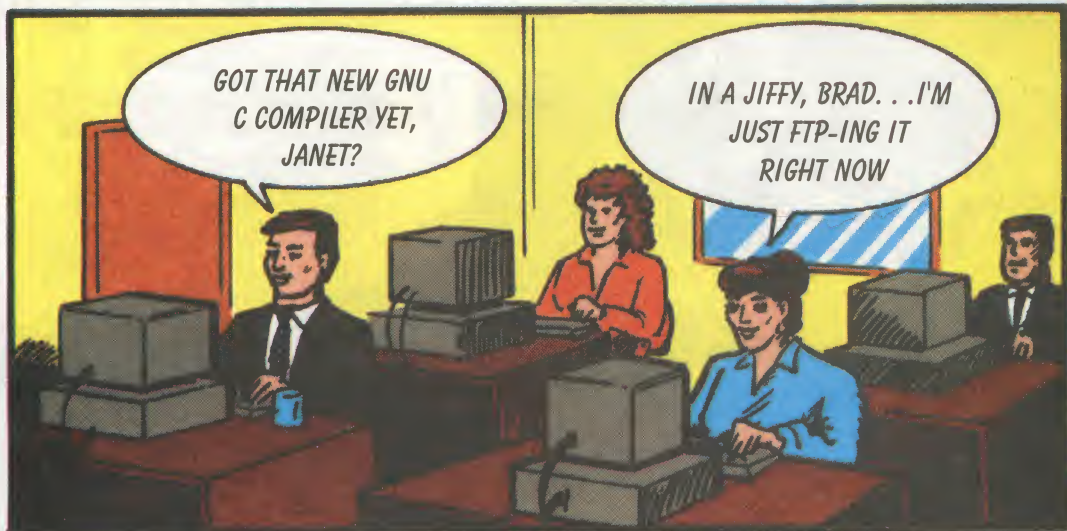
**FOR MORE INFORMATION CONTACT:**

**Telephone 1-800-876-CERF**

**Internet E-mail: [help@cerf.net](mailto:help@cerf.net)**



# THE LAN THAT TIME FORGOT



THE ADVENTURES OF CAPTAIN INTERNET by CERFnet, P. O. Box 85608, San Diego, California, 92186-9784, U. S. A. No. 1, October 1991. Illustration and layout by Rick Wilkins, General Atomics. Color by John Coleman, Ann Bilinski, and Rick Wilkins, General Atomics. Written by Steve Lamont, © 1991, bitbucket Music. Page layout by Karen Armstrong McKelvey, CERFnet, General Atomics. All contents © 1991 by CERFnet and General Atomics, U. S. A., unless otherwise noted. All characters, including Captain Internet™, CERF Boy™, Count Crackula™ are trademarks of CERFnet and General Atomics, U. S. A. All rights reserved. Used with permission. Recycle where possible please. Published every now and then.



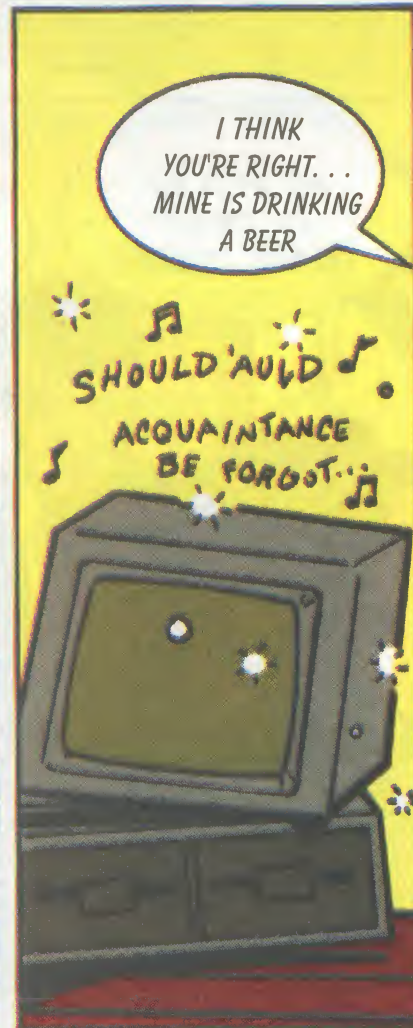


HAAAAHAHAHAHAHAHA!  
THOSE COMPLACENT FOOLS! THEY  
THINK THEIR NETWORK IS  
SECURE! LITTLE DO THEY KNOW  
THAT I, COUNT CRACKULA, AM  
ABOUT TO DESTROY THEIR PUNY  
LITTLE NETWORK AND LEAVE  
THEM DEFENSELESS AGAINST  
MY LEGION OF BOGONS!!

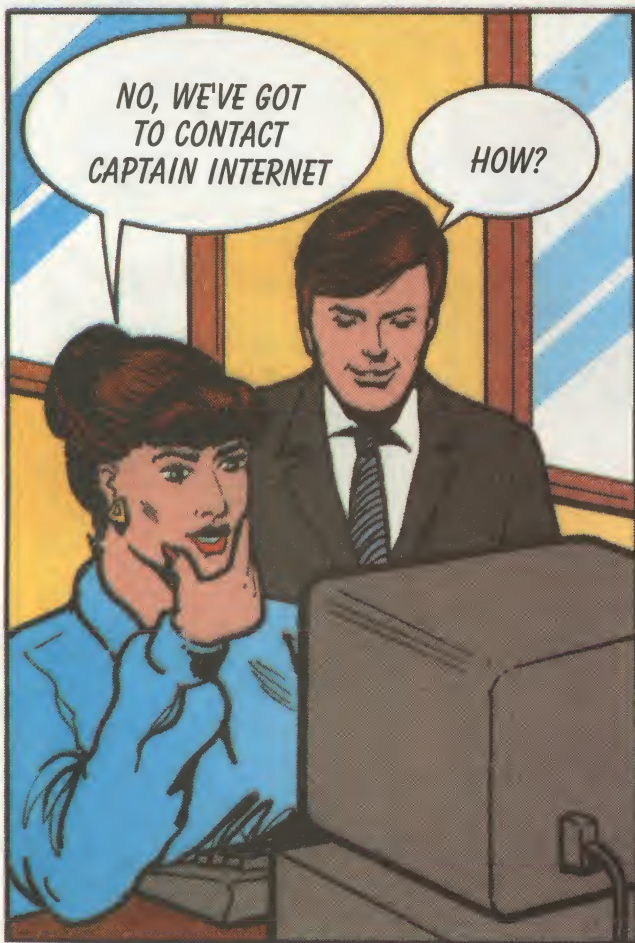


BWHAHAHAHAHAHA!  
NOW LET ME SEE THOSE  
PUNY MORTALS TRY AND  
FTP TO A REMOTE SITE AND  
DOWNLOAD SOFTWARE . . .  
THEY ARE AT MY MERCY!











**M**

eanwhile at the beach . . . Captain Internet, in her secret identity of Diana Domain, is enjoying a day of relaxation



Diana Domain's boredom is about to end . . .



WELL, I'M  
BORED . . . NOTHING  
EVER HAPPENS  
AT THE BEACH

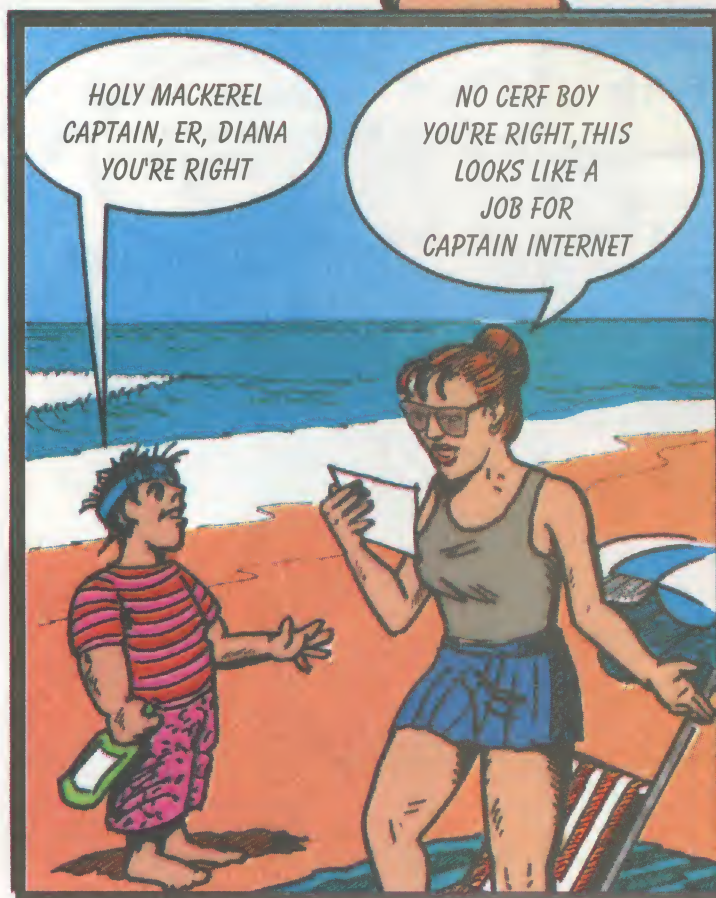
LOOK! LOOK  
WHAT I'VE FOUND!

IT LOOKS LIKE  
A MESSAGE IN A BOTTLE  
ADDRESSED TO YOU . . . DO  
YOU KNOW ANY  
FLOUNDER?



NONE  
THAT CAN  
WRITE











**M**

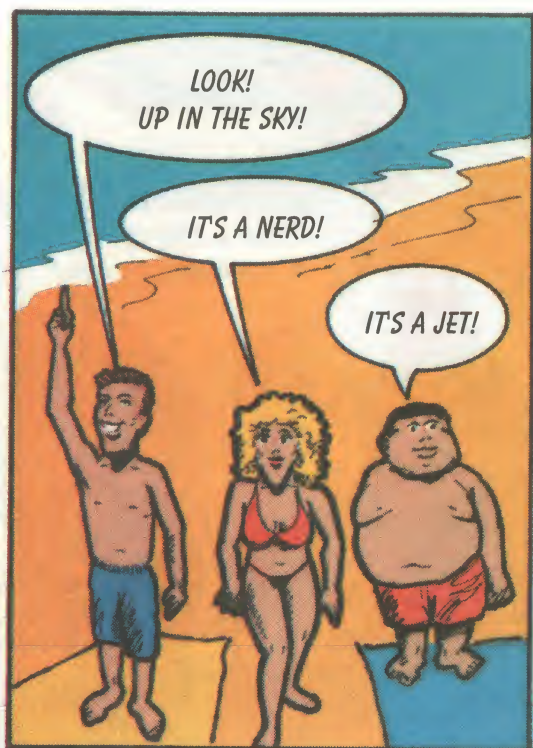
eanwhile at sites all around the country, things were looking terminal . . .











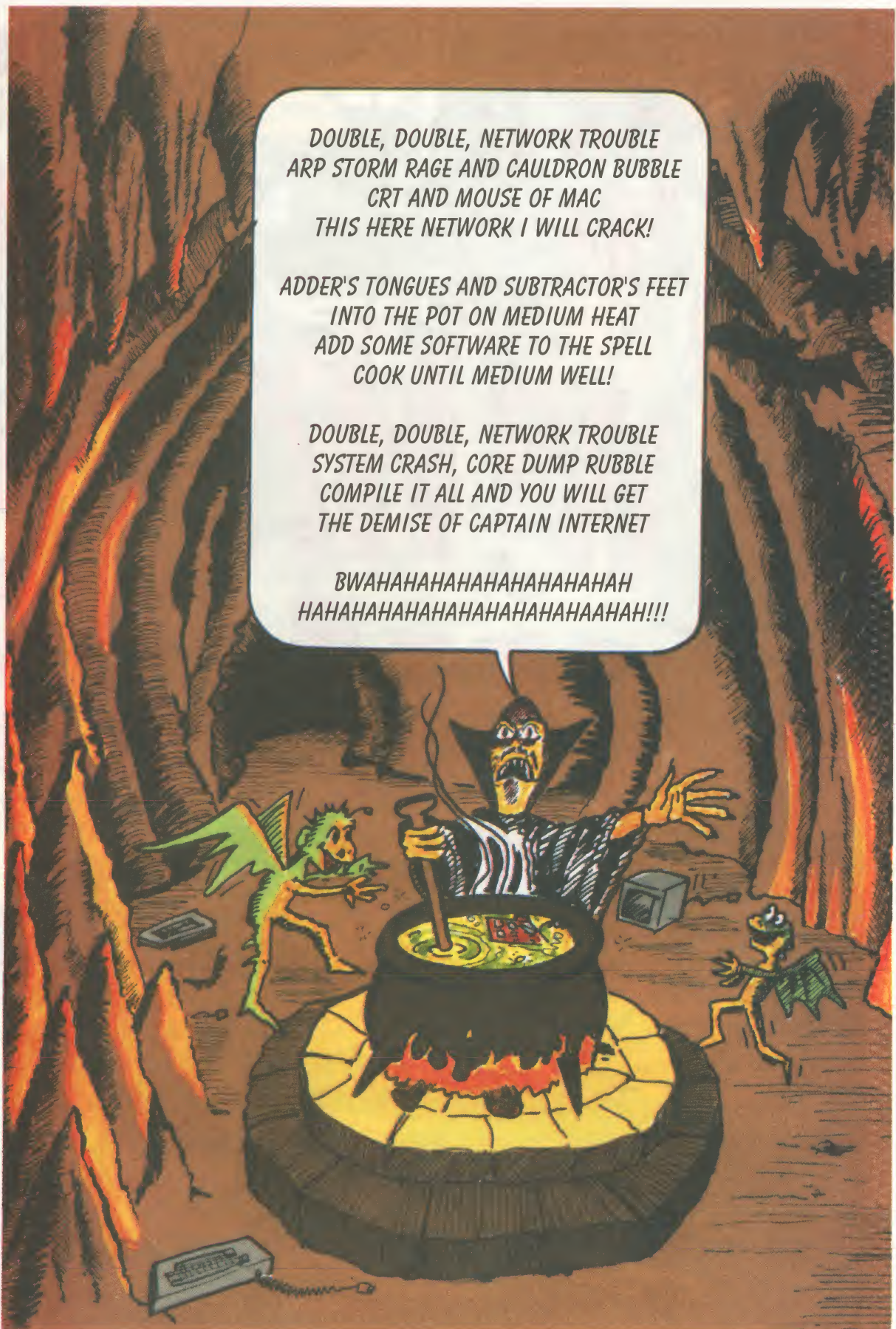


DOUBLE, DOUBLE, NETWORK TROUBLE  
ARP STORM RAGE AND CAULDRON BUBBLE  
CRT AND MOUSE OF MAC  
THIS HERE NETWORK I WILL CRACK!

ADDER'S TONGUES AND SUBTRACTOR'S FEET  
INTO THE POT ON MEDIUM HEAT  
ADD SOME SOFTWARE TO THE SPELL  
COOK UNTIL MEDIUM WELL!

DOUBLE, DOUBLE, NETWORK TROUBLE  
SYSTEM CRASH, CORE DUMP RUBBLE  
COMPILE IT ALL AND YOU WILL GET  
THE DEMISE OF CAPTAIN INTERNET

BWAHAHAHAHAHAHAHAHAHAHAH  
HAHAHAHAHAHAHAHAHAHAHAHAHAH!!!

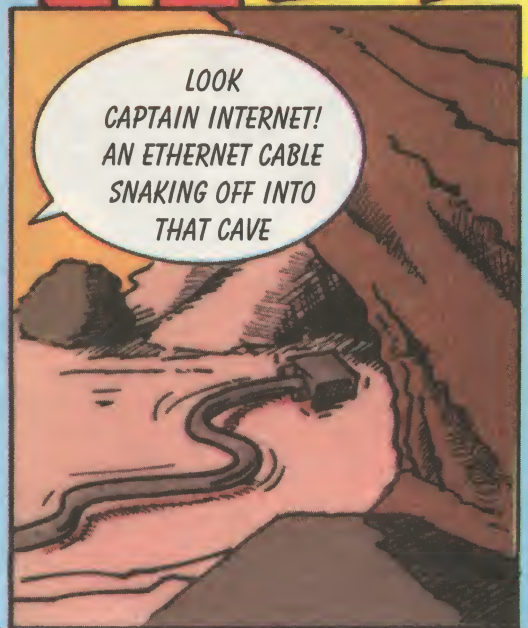






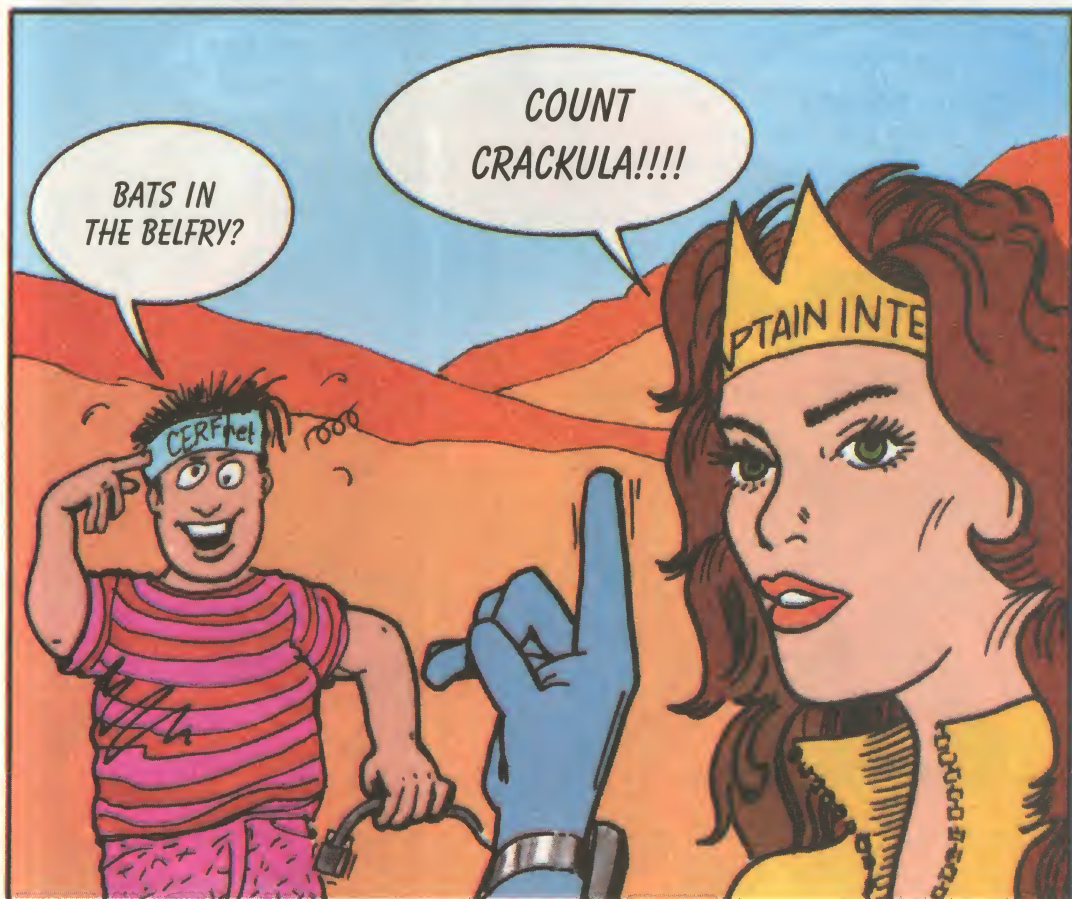
THIS IS WORSE  
THAN I IMAGINED  
CERF BOY . . . THE WRITER  
HAS COMPLETELY LOST  
CONTROL OF THE PLOT

YEAH I KNOW,  
AND YOU COULD USE  
SOME DRIVING LESSONS  
YOURSELF

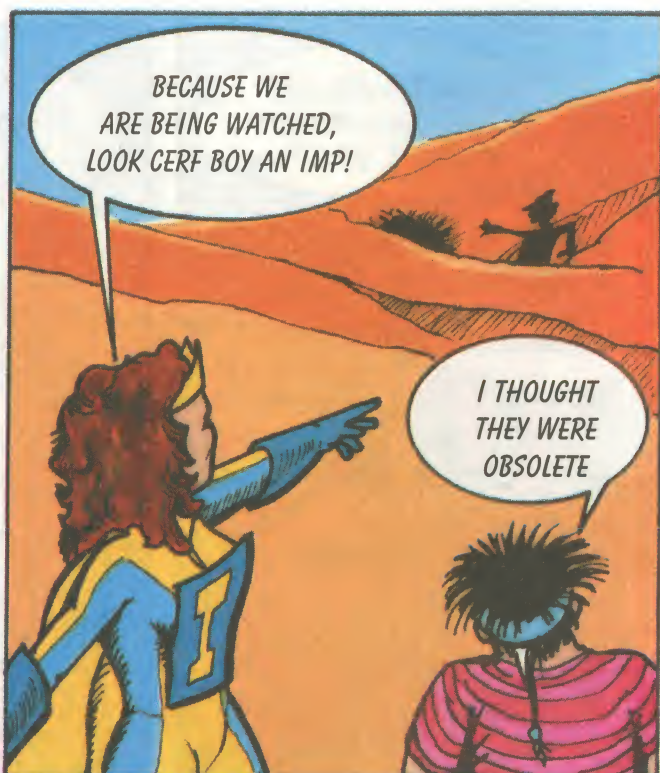


LOOK  
CAPTAIN INTERNET!  
AN ETHERNET CABLE  
SNAKING OFF INTO  
THAT CAVE

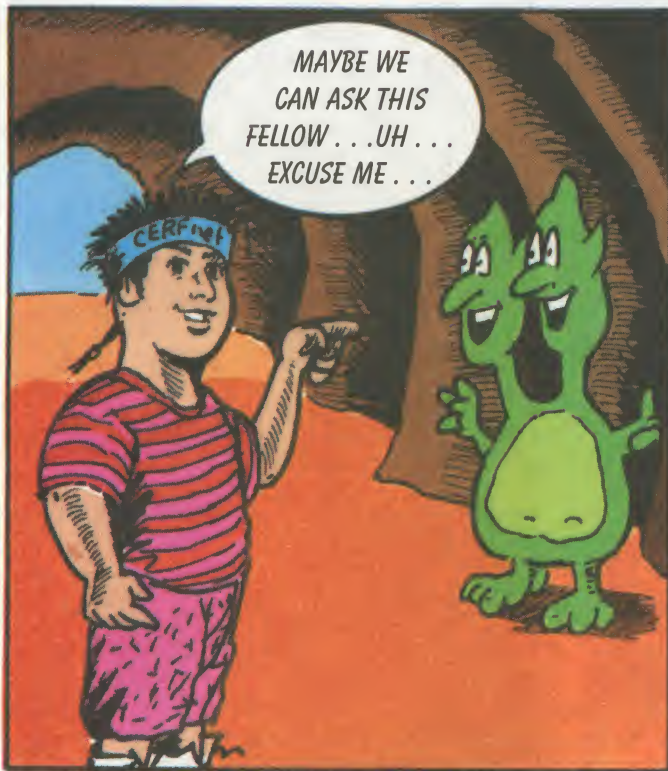














SEE?

SEE?

AAHHRGH!!

AAHHRGH!!



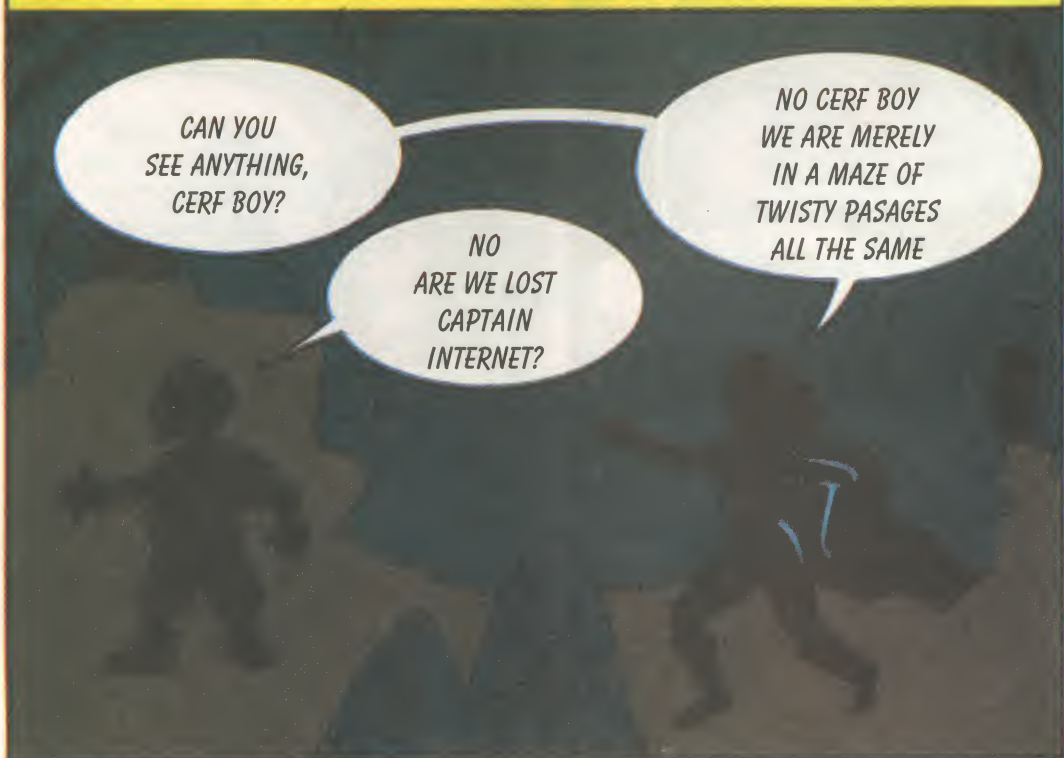
**C**

aptain internet and cerf boy are lost in a maze of twisty passages  
all the same

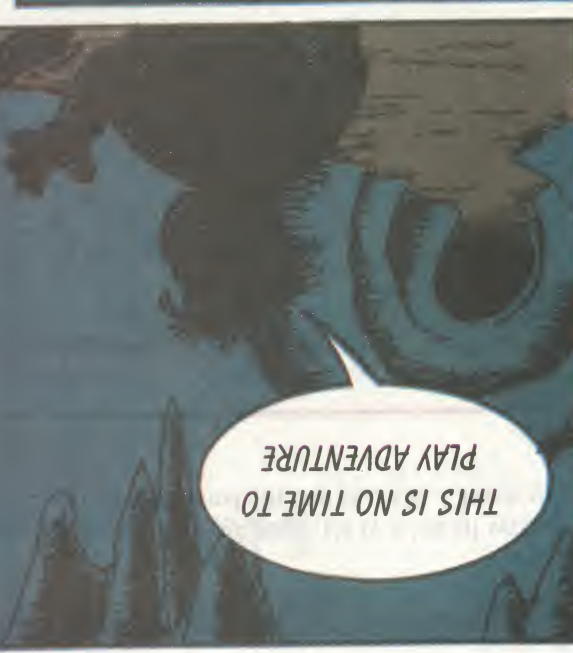
CAN YOU  
SEE ANYTHING,  
CERF BOY?

NO  
ARE WE LOST  
CAPTAIN  
INTERNET?

NO CERF BOY  
WE ARE MERELY  
IN A MAZE OF  
TWISTY PASAGES  
ALL THE SAME









# TOTALLY RAD WORD SEARCH

Below is a word search puzzle. On the bottom of this page and page 19 is a list of words hidden in the puzzle. Have a *totally rad* time locating the words in the puzzle. Check your answers on page 26.

T	H	R	E	E	W	A	Y	H	A	N	D	S	H	A	K	E	Z	L	T	J	A	B	A	O	N	I	C
S	S	L	M	O	V	O	S	U	G	D	J	S	M	N	Q	M	U	K	E	R	M	I	T	T	O	R	O
A	C	O	B	J	N	A	H	Y	I	Q	D	O	A	H	A	A	B	C	N	D	H	E	R	K	I	F	G
C	K	G	W	R	O	U	T	E	R	S	K	R	E	P	E	A	T	E	R	Y	I	C	A	B	T	Y	J
D	H	I	Y	A	J	T	I	G	A	V	L	N	E	O	P	Q	R	S	E	T	U	V	N	W	A	X	Y
A	E	N	E	T	W	O	R	K	A	D	D	R	E	S	S	H	L	M	T	N	O	P	S	Q	L	R	S
O	A	N	D	R	Z	N	A	B	C	A	D	E	F	G	S	H	I	J	N	K	I	K	C	A	U	E	O
R	X	Y	A	B	E	O	J	L	M	T	N	R	O	B	O	M	T	P	I	N	G	S	E	R	S	I	D
B	A	F	R	A	G	M	E	N	T	A	T	I	O	N	F	E	A	D	C	B	A	Z	I	Y	P	X	J
M	V	R	A	B	C	O	D	E	F	L	G	H	I	A	J	K	L	S	K	M	N	O	V	P	A	Q	A
R	S	I	T	U	V	U	W	X	Y	I	Z	D	O	M	A	I	N	A	K	B	C	D	E	E	C	F	R
G	H	C	I	J	K	S	L	M	N	N	O	P	Q	E	R	S	T	U	V	W	P	I	R	X	N	Y	S
X	I	C	Z	A	B	S	C	N	D	K	E	F	P	R	O	T	O	C	O	L	G	H	I	J	E	K	O
L	M	N	O	P	Q	Y	R	E	S	L	T	C	U	E	V	W	S	X	Y	Z	A	B	C	D	E	F	F
G	H	I	J	K	L	S	M	T	N	A	O	L	P	S	Q	R	I	D	D	F	S	M	T	U	V	W	J
C	A	B	C	G	A	T	E	W	A	Y	D	I	E	O	F	G	H	I	J	K	L	A	M	N	O	P	E
I	I	H	O	G	F	E	E	O	D	E	C	E	B	L	A	Z	Y	X	W	V	U	R	T	S	R	Q	L
A	J	S	K	L	M	M	N	R	O	R	P	N	Q	U	R	C	O	R	E	G	A	T	E	W	A	Y	L
P	I	K	C	J	I	H	G	K	F	E	D	T	C	T	B	A	Z	Y	X	W	V	I	U	T	S	R	Y
P	C	D	A	O	P	O	S	L	I	P	M	S	L	I	V	I	S	E	A	Q	P	A	S	O	N	M	L
L	B	A	N	J	W	E	H	A	T	R	K	E	N	O	B	K	C	A	B	M	I	N	S	W	N	R	O
I	N	G	W	A	I	F	A	Y	R	T	I	R	G	N	Z	E	B	R	E	A	F	A	E	V	I	O	R
C	C	I	T	T	I	B	A	E	R	B	I	V	E	D	O	L	L	T	H	J	A	V	R	P	G	E	Y
A	C	O	O	K	I	D	A	R	P	A	E	E	S	B	J	T	S	A	J	T	K	L	D	M	N	O	A
T	E	L	N	E	T	P	N	Q	R	O	N	R	V	R	W	Y	E	M	O	E	P	A	D	S	T	A	W
I	A	C	Z	N	T	T	E	E	A	P	L	M	P	I	S	C	A	N	D	N	T	Y	A	X	L	J	E
O	V	Y	B	A	S	B	P	C	G	D	E	O	F	D	G	T	O	M	M	A	O	R	T	O	T	W	T
N	S	A	P	A	A	C	O	P	Q	I	R	D	N	G	V	T	W	N	G	P	S	U	E	P	E	P	A
L	R	L	R	M	C	N	X	J	A	C	B	E	O	E	L	A	E	R	N	R	T	E	N	R	N	O	G
A	O	S	O	S	I	Y	O	U	E	A	T	L	R	O	T	T	A	N	B	A	N	A	R	N	F	A	L
Y	W	S	X	H	T	I	R	L	E	Y	P	H	I	L	L	M	I	P	R	S	S	T	E	J	R	R	I
E	A	N	Y	C	L	I	T	T	L	E	E	N	D	I	A	N	C	R	A	A	B	V	T	N	E	G	A
R	V	M	W	E	U	W	H	A	T	A	G	R	E	A	T	D	A	T	E	N	F	S	N	Y	C	L	M
I	N	T	E	R	M	E	D	I	A	T	E	S	Y	S	T	E	M	W	G	B	O	T	I	Z	A	K	J

ADDRESS MASK  
AGENT  
APPLICATION LAYER  
ARPANET  
AUTONOMOUS SYSTEM  
BACKBONE  
BIG ENDIAN  
BRIDGE

BROADCAST  
CERFNET  
CIX  
CISCO  
CCITT  
CLIENT SERVER MODEL  
CORE GATEWAY  
DARPA

DATA LINK LAYER  
DOMAIN  
ENCAPSULATION  
END SYSTEM  
FARNET  
FDDI

(Continued on page 19)



# "HANDS-ON INTERNETTING: A BEGINNER'S COURSE"

October 24, 1991  
November 13, 1991  
December 11, 1991  
8:30 a.m. - 4:30 p.m.

U. C. San Diego, California  
Instructor: Dr. Jack Pope

This course is a hands-on introduction to the Internet for new users. The emphasis of this course is "getting started on the Internet." Students will learn about various Internet services and how to access them.

This course will provide the student with enough knowledge to use the mail, file transfer, and remote login applications provided via the Internet TCP/IP protocol. The following examples will be included:

The course will also provide tips on who to contact with network questions. It will also provide information on what network information services are available today on the Internet, such as *whois* and *finger* servers.

## Registration Information

Each course is \$69.00 per person for CERFnet members, \$99 per person for teachers and aides, and \$169.00 per person for all others. The cost includes course materials and lunch. [Note: Payment must be received 30 days before the course date, or a \$50.00 late registration fee will be charged.]

For more information, including registration details, contact Mike Beach (beachm@cerf.net) or telephone (619) 534-5181.

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## TOTALLY RAD WORD SEARCH

(Continued from page 18)

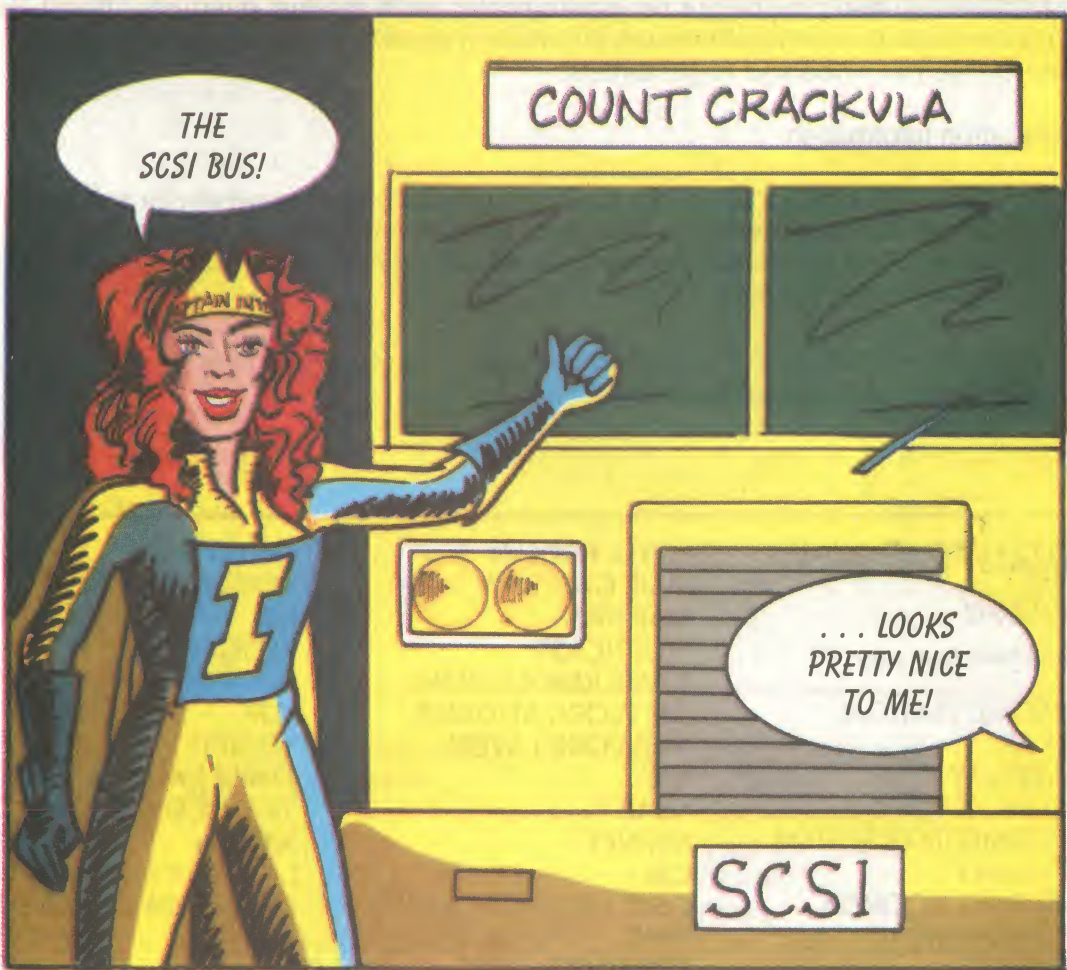
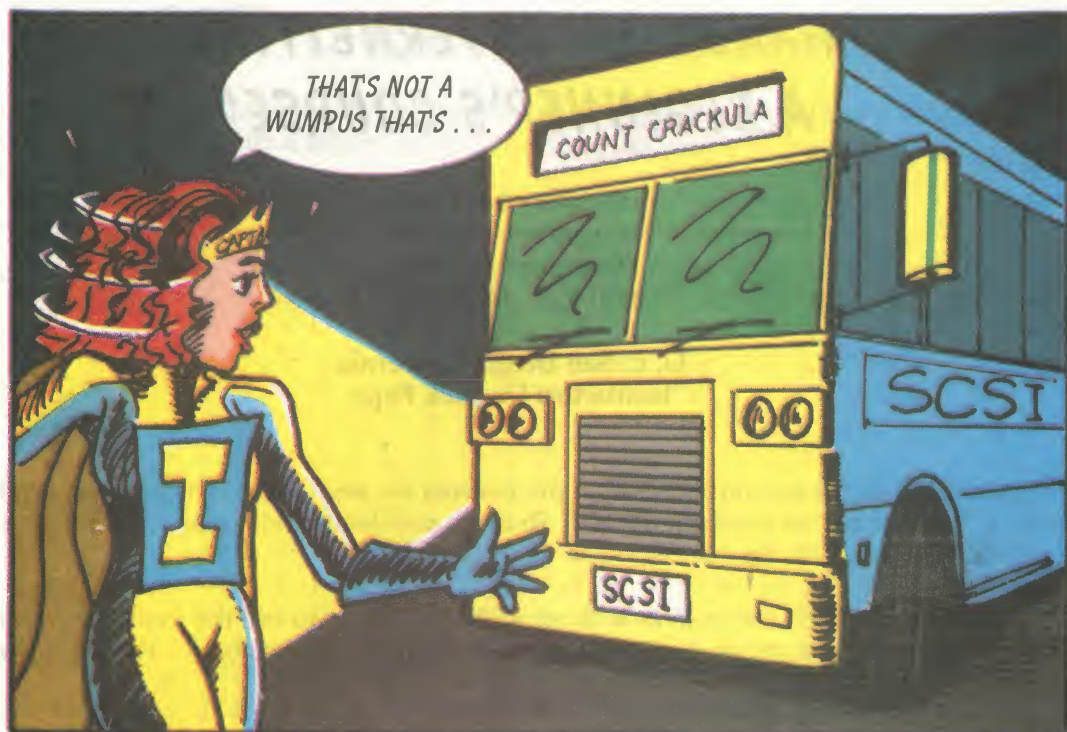
FRAGMENTATION  
FRICC  
GATEWAY  
GOSIP  
INTERMEDIATE SYSTEM  
INTERNET  
INTERNET ADDRESS  
IP DATAGRAM  
KERMIT

LITTLE ENDIAN  
MAIL GATEWAY  
MARTIAN  
MULTICAST  
NAME RESOLUTION  
NETWORK ADDRESS  
NETWORK LAYER  
NIC  
NSAP  
NSFNET  
OSI  
OSPF  
PING  
PROTOCOL

PROXY  
REPEATER  
RIP  
RLOGIN  
ROUTER  
SLIP  
TELNET  
THREE WAY HANDSHAKE  
TRANSCIVER  
X/OPEN

(See page 26 for answers)













LUCKY  
WE FOUND . . .

HOLY MACRO  
ASSEMBLER CAPTAIN  
INTERNET! LOOK  
AT THE SIZE OF  
THIS PLACE!



WELCOME  
TO MY DOMAIN,  
CAPTAIN INTERNET

YOU TOO  
CERF BUM



THAT'S  
CERF BOY!

WHATEVER . . .

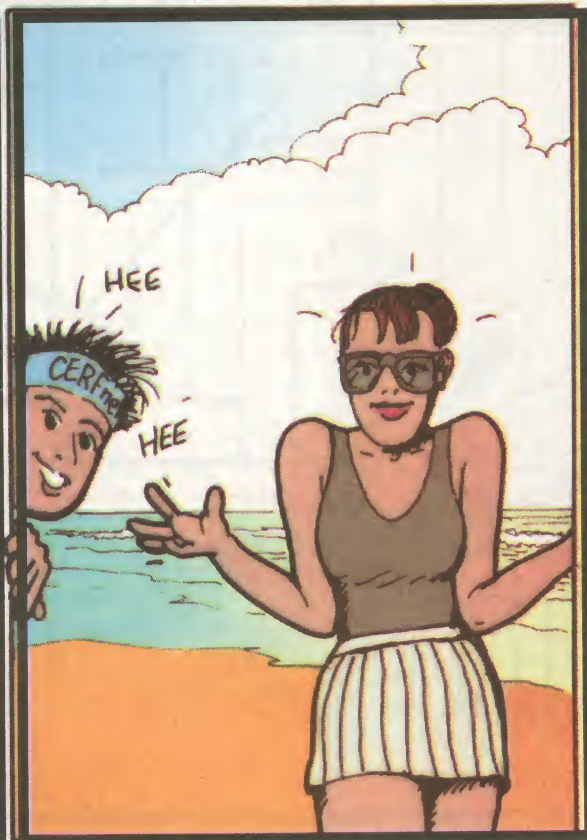










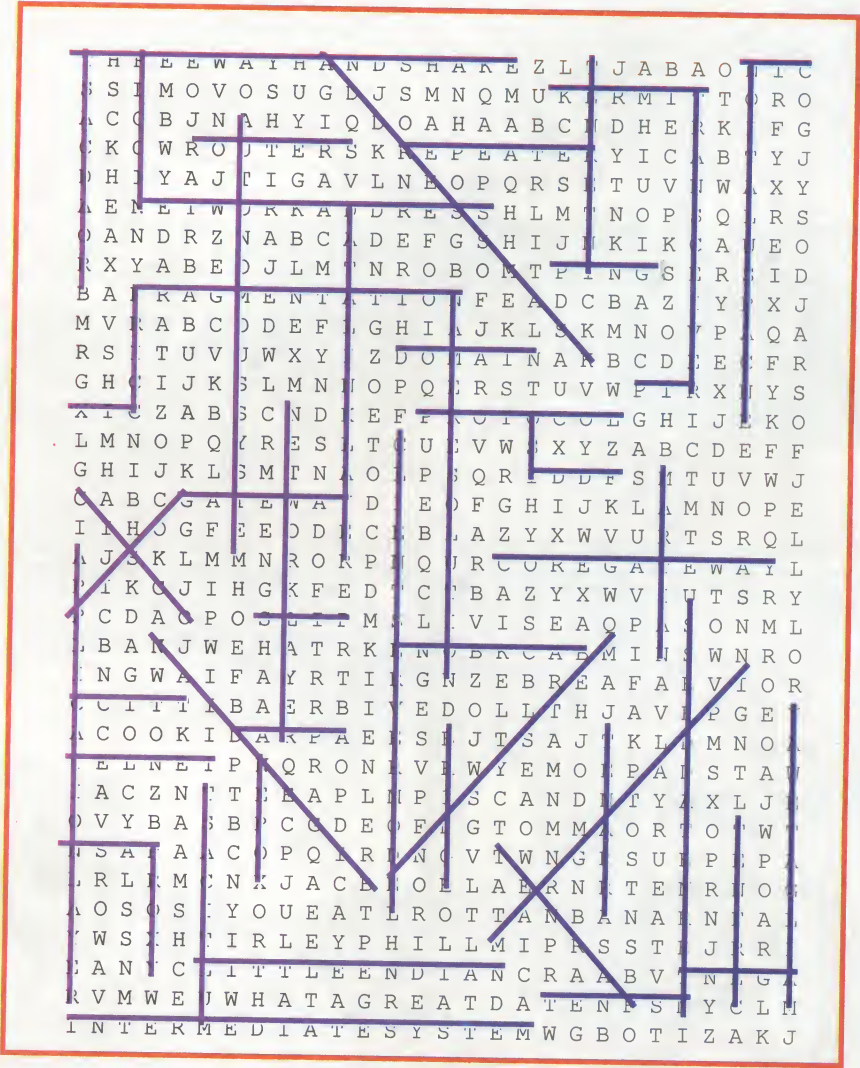




# TOTALLY RAD WORD SEARCH

(Continued from page 19)

Below are the answers to  
the word search puzzle on  
page 18 and 19.





## Computer Internetworks for the Real World

Only Cisco has built large multivendor, multiprotocol internetworks. Building single networks with hundreds of router/bridges connecting tens of thousands of computers, printers, file servers is something Cisco has years of experience doing.

Cisco invented this internetworking technology and now has over 20,000 systems installed worldwide, clearly establishing Cisco as the leader in this critical technology arena.

And it doesn't matter what brand of computer equipment you use. Cisco routers speak more dialects of computer protocols than all of our competitors combined.



1525 O'Brien Drive  
Menlo Park, CA 94025  
1-800-553-NETS  
FAX 415-326-1989

Here's a small, partial list:

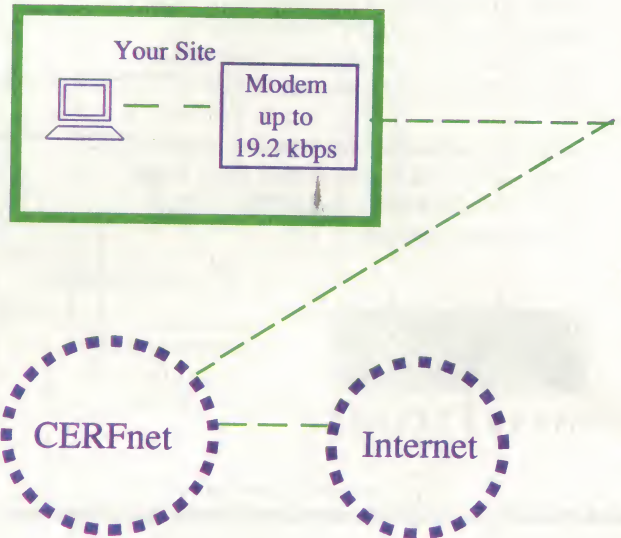
TCP/IP	Used for UNIX systems such as son, MIPS, NeXT, Hewlett Packard, Silicon Graphics
DECnet IV&V	For Digital Equipment Corp. computers
VINES	For Banyan LAN
SDLC	For IBM
IPX	For Novell LAN
Domain	For Apollo workstations
AppleTalk 1&2	For Macintoshes

GEE I THOUGHT IT WAS  
JUST A MISPRINT!





# DIAL N' CERF: YOUR DIALUP INTERNET CONNECTION



## ***Cost-effective and Convenient***

CERFnet recognizes the need for individuals and smaller organizations to have access to the same resources as larger organizations. DIAL n' CERF is a cost-effective and convenient dialup service.

This service allows users to connect to CERFnet via a terminal or personal computer and a modem (up to 19.2 kbps) by dialing up the nearest CERFnet backbone node and logging onto a terminal server.

**CERFnet**

*Your Communications Edge*

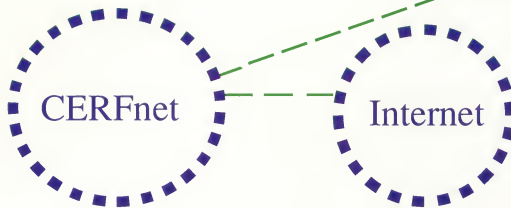
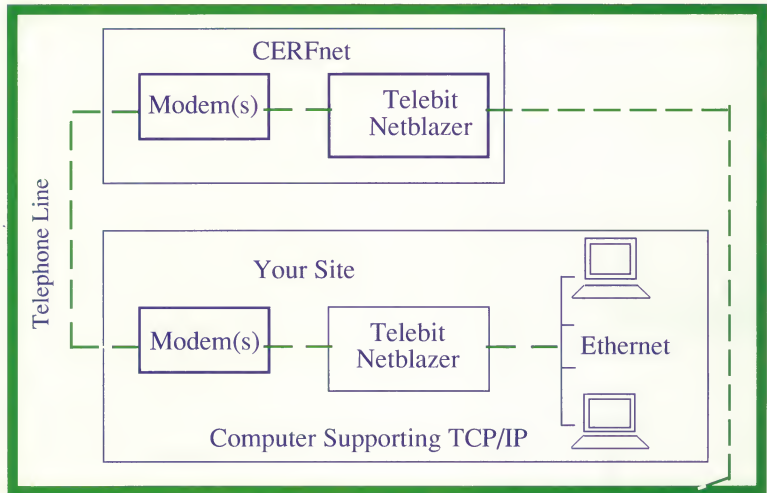
**FOR MORE INFORMATION CONTACT:**

**Telephone 1-800-876-CERF**

**Internet E-mail: [help@cerf.net](mailto:help@cerf.net)**



# DIAL N' CERF PLUS: THE SIMPLE SOLUTION



## *Economical and Efficient*

DIAL n' CERF Plus is an economical and efficient alternative for sites with lower startup needs. With DIAL n' CERF Plus, many users can easily access the network with minimal training.

This service uses ordinary telephone lines and modems. When a user needs to access CERFnet, a connection is automatically and transparently made. Several users can use the same dialup connection simultaneously. As your needs grow, adding bandwidth is as easy as adding another modem.

**CERFnet**

*Your Communications Edge*

**FOR MORE INFORMATION CONTACT:**

**Telephone 1-800-876-CERF**

**Internet E-mail: [help@cerf.net](mailto:help@cerf.net)**



# C E R F n e t



*Your Communications Edge*

The California Education and Research Federation Network is your connection to the world. CERFnet links you to the Internet — giving you access to hundreds of databases and over a million users worldwide. Our goal is to promote collaboration among scientists, engineers, and educators in commercial, government, and academic sectors.

Our commitment is to serve your total communications needs better than anyone else in the marketplace. To keep information flowing smoothly for our users, we offer a variety of customer support services. CERFnet provides a 24-hour hotline, continuous network monitoring and management, an expert staff, and the maintenance support you need.

CERFnet is a founding member of the Commercial Internet Exchange (CIX). The CIX allows CERFnet customers to exchange commercial Internet traffic with other CIX member sites.

CERFnet began with support from the National Science Foundation. CERFnet is headquartered at the San Diego Supercomputer Center and is a project of General Atomics, a San Diego-based research and development company.

**FOR MORE INFORMATION CONTACT:**  
**Telephone 1-800-876-CERF**  
**Internet E-mail: [help@cerf.net](mailto:help@cerf.net)**

**CERFnet**



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Phone: (619) 534-5087 or 1-800-876-CERF

Fax: (619) 534-5167

Internet E-Mail: [help@cerf.net](mailto:help@cerf.net)

-A division of General Atomics-